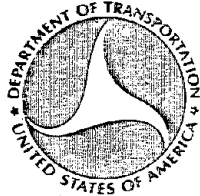


PB301149

REPORT NO. UMTA-MA-06-0025-79-6, IV

SLRV ENGINEERING TESTS AT DEPARTMENT OF TRANSPORTATION
TRANSPORTATION TEST CENTER
FINAL TEST REPORT
Volume IV - Data Logs

Prepared by
Boeing Vertol Company
Surface Transportation Systems
Philadelphia, PA 19142



JUNE 1979

FINAL REPORT

DOCUMENT IS AVAILABLE TO THE PUBLIC
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INFORMATION SERVICE, SPRINGFIELD,
VIRGINIA 22161

Prepared for
U.S. DEPARTMENT OF TRANSPORTATION
URBAN MASS TRANSPORTATION ADMINISTRATION
Office of Technology Development and Deployment
Office of Rail and Construction Technology
Washington, D.C. 20590

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Technical Report Documentation Page

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16. Abstract In May 1973, the Boeing Vertol Company was awarded a contract to build Light Rail Vehicles to a specification sponsored by the Urban Mass Transportation Administration, and identified a Standard Light Rail Vehicle (SLRV). The SLRV is a 71-foot vehicle, articulated to negotiate curves down to a 32-foot radius and designed to operate at speeds up to 50 mph. Although the basic configuration and performance is standardized, the current operating properties (Massachusetts Bay Transportation Authority and San Francisco Municipal Railway) have specified individual requirements for auxiliary equipment and passenger accommodation. Engineering testing on the SLRV was conducted by the Boeing Vertol Company at the Transportation Test Center in Pueblo, Colorado in accordance with the General Vehicle Test Plans (GSP-064), which are designed to provide the data necessary for quantitative comparison of different transit cars. The tests were conducted in conjunction with the Qualification Testing of three SLRV Production Pilot Cars (SF-0002, SF-0003, and MB-0002). This report presents the results of the series of tests conducted. The general objective of the test program was to establish a baseline for the SLRV obtained in accordance with the General Vehicle Test Plans and to provide further experience in the use of the Test Plans in testing urban rail vehicles. The test program was divided into five categories: performance; power consumption; ride roughness; noise; and radio frequency interference. This report, together with the additional available data in the TSC magnetic tape records, provides a baseline of data for Light Rail Vehicles against which later modifications to these vehicles or other new vehicles may be compared. Upon completion of testing, the data tapes and records were forwarded to Boeing Vertol where data was reduced, analyzed, and plotted in the GSP-064 format for inclusion in this 4-volume test report.					
17. Key Words General Vehicle Tests; Interference; Light Rail Vehicles; Noise Tests; Ride Quality; Standard Light Rail Vehicles; Testing Facilities; Transit Performance; Transportation Test Center			18. Distribution Statement Available to the Public through the National Technical Information Service, Springfield, Virginia 22161.		
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A. TOTAL TEST LOG ON CAR SF0002

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 2 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
10/14/75	4								
	10	ACCEL	100 %		AWO	SF0002	N		
	11	F.S. BRAKE	↓		↓	↓	S		
	12	F.S. BRAKE	↓		↓	↓	N		
	13	FRICION	↓		↓	↓	N		
10/20/75	5								
	1	ACCEL	100%	0-30	AWO	SF0002	N		TAPE A-1, B-1
	2	↓		0-30	↓	↓	S		
	3	↓	50%	0-30	↓	↓	S		
	4	F.S. BRAKE	100%	20	↓	↓	S		
	5	↓	50%	20	↓	↓	S		
	6	↓	100%	30	↓	↓	S		
	7	↓	50%	30	↓	↓	S		
	8	↓	100%	50	↓	↓	S		
	9	↓	50%	50	↓	↓	S		
	10	↓	100%	50	↓	↓	N		
	11	FRICION	100%	20	↓	↓	S		
	12	↓	50%	20	↓	↓	S		
	13	↓	100%	30	↓	↓	S		
	14	↓	50%	30	↓	↓	S		
	15	F.S. BRAKE	100%	40	↓	↓	S		
	16	FRICION	100%	40	↓	↓	S		
	17	↓	50%	40	↓	↓	S		
	18	↓	100%	50	↓	↓	S		
	19	↓	50%	50	↓	↓	S		
	20	↓	100%	50	↓	↓	N		
21	EMERGENCY	100%	30	↓	↓	S			
10/21/75	6								
	1	EMERGENCY	100%	30	AWO	SF0002	S		TAPE A-1, B-1
	2	↓		30	↓	↓	S		
	3	↓		30	↓	↓	S		
	4	↓		30	↓	↓	S		
	5	↓		30	↓	↓	S		
	6	↓		50	↓	↓	S		
	7	↓		30	↓	↓	N		
	8	↓		30	↓	↓	N		
	9	DYNAMIC	100%	20	↓	↓	S		
	10	↓	50	20	↓	↓	S		
	11	↓	100	30	↓	↓	S		
	12	↓	50	30	↓	↓	S		
13	↓	100	40	↓	↓	S			

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 3 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VCLTS	NOTES:									
10/21/75	6	14	↓	DYNAMIC	50%	AWO	SF0002	S	Tape A-1, B-1									
		15		100%	40					S								
		16		100%	50					S								
		17		50%	50					S								
		18		SPEED CALIB	100%					20	S							
		19		↓	25					S								
		20		↓	30					S								
		21		↓	30					S								
		22		↓	40					S								
		23		↓	40					S								
		24		↓	45					S								
		25		↓	50					S								
		26		TRACK BRAKE	↓					10	S							
		27		↓	20					S								
		28		↓	30					S								
		29		↓	40					S								
		30		↓	50					S								
		31		↓	50					S								
		10/22/75		7	1					↓	ACCEL	100%	AWO	SF0002	X	570		
					2						0-50	S						
					3						0-50	S						
					4						0-50	S						
					5						0-50	S						
					6						0-50	S						
					7						DYNAMIC	100%					30	S
					8						↓	30					S	
					9						↓	30					S	
		10/24/75		8	1					↓	ACCEL	100%	AWO	SF0002	Z			
					2						ACCEL	0-50					S	
					3						DRIFT	30-0					Z	
					4						↓	30-20					S	
5	↓		30-20		S													
6	BLENDED FRICTION		30		S													
7	↓		30		S													
8	↓		30		S													
9	↓		30		S													
10	↓		30		S													
11	↓		30		S													
12	↓		30		S													

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 4 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
10/29/75	9	1 ACCEL	100	0-50	AWO	SF0002	N		} No. CEC
	2	↓	↓	0-50					
	3	↓	↓	0-50					
	4	↓	↓	0-50					
	5	↓	↓	↓					
	6	ACCEL	↓	0-35					
	6	BLENDED	50	35-0					
	7	↓	50	35-0					
	8	ACCEL	100	0-35					
	8	BLENDED	100	35-0					
	9	ACCEL	100	0-35					
	9	BLENDED	100	35-0					
	10	ACCEL	100	0-35					
	10	BLENDED	50	35-0					
	11	ACCEL	100	0-35					
11	BLENDED	100	35-0						
12	ACCEL	100	0-35						
12	EMERGENCY	100	35-0						
13	EMERGENCY	100	35-0						
14	STEADY STATE ACCEL	↓	50						
15	EMERGENCY	↓	↓						
	10	SKIPPED							
11/3/75	11	1 F.S. BRAKE	50%	35	AW 2	SF0002	Z		
	2	↓	100%	35					
	3	↓	50%	35					
	4	↓	100%	35					
	5	ACCEL	100	50					
	6	DECEL	↓	50					
	7	EMERGENCY	↓	35					
	8	↓	↓	35					
	9	↓	↓	35					
	10	↓	↓	35					
	11	↓	↓	35					
	12	F.S. BRAKE	25%	35					
	13	↓	75%	35					
	14	↓	25%	35					
	15	↓	75%	35					
	16	ACCEL	100%	0-50					
	17	ACCEL	100%	0-50					

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 5 OF 36

DATE	TEST NO. REC NO	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/3/73	11	ACCEL	100%	0-50	AW2	SF0002	N		PANOGRAPH BOUNCE
	18	↓	↓	0-50	↓	↓	S		
	19	↓	↓	0-50	↓	↓	S		
	20	↓	↓	0-50	↓	↓	S		
	21	↓	↓	0-50	↓	↓	S		
	22	FS BRAKE	↓	30	↓	↓	S		
	23	↓	↓	30	↓	↓	S		
	24	↓	↓	30	↓	↓	S		
11/24/73	12	CAS ACCEL	SIGNAL 100%	INTERFERENCE 0-20	AW2	SF0002	N		100 AMPS 200 AMPS 100 AMPS 200 AMPS 100 AMPS 200 AMPS
	1	↓	↓	↓	↓	↓	S		
	2	↓	↓	↓	↓	↓	S		
	3	↓	↓	↓	↓	↓	S		
	4	↓	↓	↓	↓	↓	S		
	5	↓	↓	↓	↓	↓	S		
	6	↓	↓	↓	↓	↓	S		
	7	↓	↓	0-50	↓	↓	S		
	8	↓	↓	↓	↓	↓	S		
	9	↓	↓	↓	↓	↓	S		
	10	↓	↓	↓	↓	↓	S		
	11	↓	↓	↓	↓	↓	S		
	12	ACCEL	↓	0-50	↓	↓	S		
	13	FRICION	↓	47	↓	↓	S		
14	BRAKE	↓	37	↓	↓	S			
15	↓	↓	48	↓	↓	S			
16	↓	↓	46	↓	↓	S			
17	↓	↓	45	↓	↓	S			
18	↓	↓	29	↓	↓	S			
19	TRACK BRAKE	↓	30	↓	↓	S			
20	↓	↓	30	↓	↓	S			
21	↓	↓	31	↓	↓	S			
22	↓	↓	30	↓	↓	S			
23	↓	↓	30	↓	↓	S			
24	↓	↓	30	↓	↓	S			
11/26/73	13	ACCEL	100%	0-50	AW2	SF0002	N		
	1	↓	↓	↓	↓	↓	S		
	2	↓	↓	↓	↓	↓	S		
	3	↓	↓	↓	↓	↓	S		
	4	↓	↓	↓	↓	↓	S		
	5	↓	↓	↓	↓	↓	S		
	6	↓	↓	↓	↓	↓	S		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 6 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/26/75	13 8 9 10 11	FRICTION BRAKE ↓	100% ↓	30 30 50 48	AW2 ↓	SF0002 ↓	S N S N		
12/12/75	14 1 2 3 4	ACCEL ↓	100% ↓	0-50 " "	AW2 ↓	SF0002 ↓	S		T.E. PAUSES
12/3/75	15 1T 2T 3T 4 5T 6 7 8 9 10T 11 12 13 14 15 16 17	SPEED CALIB ↓ ACCEL ↓	100% ↓	30 30 30 30 40 40 50 48 48 30 0-50 ↓ 0-50	AW2 ↓	SF0002 ↓	N S N S N S N S N S N S N S N		Tape A-1, B-1 RESET WHEEL WEAR ROT OVERSPEED T.E. PAUSES DIAGNOSTIC GARRETT PAN. BOUNCE PAN BOUNCE INST. RECONNECTED
12/8/75	16 1	CAB SIG	100%		AW2	SF0002	N		
12/9/75	17 1 50	CAB SIGNAL ↓	100% ↓		AW2 ↓	SF0002 ↓			
12/11/75	18 1 2 3 4 5 6 7	SPEED CALIB ↓	100% ↓	30 30 40 40 50 50(48) 48	AW2 ↓	SF0002 ↓	N S N S N N S		OVERSPEED

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE / CAB SIGNAL

SHEET 7 OF 30

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INTL. SPEED	CAR WEIGHT	CAR NO.	DIRECT.	LINE VOLTS	NOTES:
12/11/75	18 8 9 10 11 12 13	SPEED CALIB ACCEL	100%	20 20 0-50 0-50 0-50	AW2	SF0002	N N N N N N		
12/12/75	19 1 2 3 4 5 6 7 8	2 CAR TRIM	100%	35 50 50 50 50	AW2/AXO	SF0002 & SF0003	S N N N N N N		JERKING PROP DISABLE TV CREW ON SF0003 TX CREW ON SF0002
12/12/75	20	CAB SIGNAL	100% 50%		AW2	SF0002			
12/15/75	21 TAPU 10	CAB SIGNAL			AW2				TEST 4-1
12/18/75	22 1 2 3 4 5 6 7 8 9	SPEED CALIB ACCEL	100%	20 40 0-50	AW2	SF0002	N S N S N S N N		ARMATURE CURRENT 720 AMP T.E. PAUSES ADJ. OF HALL SENSOR PANO. BOUNCE & HALL SENSOR ADJ.
12/19/75	23 1 2 3 4 5 6 7 8 9 10	ACCEL	100%	0-50	AW2	SF0002	S N S N S N S N S		TAPE A-2, B-2 T.E. PAUSES NO PAUSE TWO PAUSES NO PAUSE TWO PAUSES NO PAUSE

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 9 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:							
12/22/73	24	13 T DYNAMIC	100%	40	AW2	SF0002	S									
	14	↓	50%	40						N						
	15	↓	100%	50						S						
	16	↓	100%	50						Z						
	17	↓	50%	50						N						
	18	18 T EMERGENCY	100%	50						S						
	19	↓		50						Z						
	20	↓		40						N						
	21	↓		30						Z						
	22	↓		20						N						
	23	↓		10						S						
	24	↓		30						S						
	25	↓		40						S						
	26	26 T SPEED CALIB		50						Z						
	27	↓		50						N						
	28	↓		40						Z						
	29	↓		40						S						
	30	↓		30						Z						
	31	↓		30						S						
	32	↓		20						Z						
	33	↓		20						S						
	34	↓		10						Z						
	35	↓		10						S						
	36	↓		10						Z						
	12/23/75	25	1 T ACCEL	100%						0-50	AW2	SF0002	S		TAPE A-2, B-2	
		2	2 T ↓												N	NOM. V 550 VOLTS
		3	3 T ↓												S	550 VOLTS
		4	4 T ↓												Z	MIN V 490 VOLTS
		5	5 T ↓												S	485 VOLTS
		6	6 T ↓												S	485 VOLTS
		7	7 T ↓												Z	MAX V 685 VOLTS
		8	8 T ↓												S	700 VOLTS
		9	9 T ↓												Z	700 VOLTS
		10	10 T ↓												S	700 VOLTS
		11	11 T ↓												Z	700 VOLTS
	1/5/76	26	4 T DRIFT TEST	100%						50-37	AW2	SF0002	N		TAPE A-3 B-3	
5		5 T ↓		50-38	S											
6		6 T ↓		37-22	Z											
7		7 T ↓		38-25	S											
8		8 T ↓		22-0	Z											
9	9 T ↓		25-0	S												

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 10 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX on INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/5/76	26 10 11 12 13 14 15 16 17 18 19 1 2 3	JERY LIMIT ACCEL FROM COAST DECEL FROM COAST DECEL FROM DRIVE EMERGENCY ACCEL FROM COAST DECEL FROM COAST DECEL FROM DRIVE EMERGENCY SPEED CAL	100% ↓	30 30 30 30 30 30 30 30 30 30 30	AW2 ↓	SF0002 ↓	N N N N S S S S S N S		
1/7/76	27		100%		AW3	SF0002			"A" CAR VERTICAL OSCILLATION OF 3-4 CPS DUE TO AW3 WEIGHT.
1/9/76	28 1 2 3	EMERGENCY	100% ↓	30 50 50	AW3 ↓	SF0002 ↓	N N N		
1/12/76	29 1 THRU 18 19 THRU 23 24 THRU 42 43 THRU 50	CAB SIGNAL TEST 4-2 TEST 4-1 TEST 4-2A TEST 4-3			AW2 ↓	SF0002 ↓			
1/13/76	30 1 THRU 9 10 THRU 28 29,30 31,32 33 THRU 42 43 THRU 46	CAB SIGNAL TEST 4-3 TEST 4-3A TEST 4-1 TEST 4-3A TEST 4-3B TEST 3-1			AW2 ↓	SF0002 ↓			

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 12 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX on INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/21/76	35	25 TRACK BRAKE	100%	50	AW3	SF0002	N		TAPE A-3, B-3
		26		25					
		27		10					
		28		20					
		29		48					
		30		30					
		31		10					
		32		38					
		33		21					
		34		30					
		35		38					
		36		20					
		37		29					
		38		29					
		39		48					
		40		29					
		41		20					
		42		48					
		43		29					
		44		20					
		45		38					
		46		38					
		47		48					
		48		48					
		49		29					
50	29								
1/22/76	36	No DATA	100%		AW3	SF0002			
1/23/76	37	1 ACCEL	100%	0-50	AW0	SF0002	S		TAPE A-3, B-3
		2							
		3							
		4							
		5							
		6							
		7		50%					
		8		50%					
		9		100%					
		10		30					
		11		30					
		12		20					
		13		30					
		14		40					

SLRV ENGINEERING TEST RUN LOG

SFO002

TYPE OF TEST: PERFORMANCE

SHEET 13 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:		
1/23/76	57	15 F.S. BRAKE	100%	40	AWO	SFO002	S		TAPE A-3 B-3		
		16	↓	100%						50	Z
		17	↓	100%						50	Z
		18	↓	50%						30	Z
		19	↓							20	Z
		20	↓							30	S
		21	↓							20	S
		22	↓							50	Z
		23	↓							50	S
		24	FRICION	100%						20	S
		25	↓							20	Z
		26	↓							30	Z
		27	↓							30	S
28	↓		40	S							
29	↓		40	Z							
1/26/75	38	1 FRICTION BRAKE	100%	50	AWO	SFO002	S		TAPE A-4, B-4		
		2	↓	100%						50	Z
		3	↓	50%						20	Z
		4	↓							20	S
		5	↓							30	S
		6	↓							30	Z
		7	↓							30	S
		8	↓							40	S
		9	↓							40	Z
		10	↓							30	Z
		11	↓							50	S
		12	↓	50%						50	Z
		13	SPEED CALIB	100%						50	S
		14	↓							50	Z
		15	↓							40	S
		16	↓							40	Z
17	↓		30	S							
18	↓		30	Z							
19	DYNAMIC BRAKE		20	S							
20	↓		30	S							
21	↓		20	Z							
22	↓		30	Z							
23	↓		40	S							
24	↓		40	Z							
25	↓		50	S							
26	↓		50	Z							

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 14 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/27/76	39	DYNAMIC	50%	20	AWO	SP0002	N		TAPE A-4, B-4
	2	↓	↓	30	↓	↓	N		
	3	↓	↓	20	↓	↓	S		
	4	↓	↓	30	↓	↓	S		
	5	↓	↓	40	↓	↓	S		
	6	↓	↓	40	↓	↓	S		
	7	↓	↓	50	↓	↓	N		
	8	↓	↓	50	↓	↓	S		
	9	TRACK BRAKE	100%	20	↓	↓	S		
	10	↓	↓	20	↓	↓	N		
	11	↓	↓	30	↓	↓	N		
	12	↓	↓	10	↓	↓	N		
	13	↓	↓	10	↓	↓	S		
	14	↓	↓	30	↓	↓	S		
	15	↓	↓	30	↓	↓	S		
	16	↓	↓	40	↓	↓	S		
	17	↓	↓	40	↓	↓	N		
	18	↓	↓	50	↓	↓	S		
	19	↓	↓	50	↓	↓	N		
	20	EMERGENCY	↓	50	↓	↓	N		
	21	↓	↓	50	↓	↓	S		
	22	↓	↓	50	↓	↓	N		
	23	↓	↓	50	↓	↓	N		
	24	↓	↓	40	↓	↓	N		
	25	↓	↓	30	↓	↓	N		
	26	↓	↓	40	↓	↓	S		
	27	↓	↓	20	↓	↓	S		
	28	↓	↓	30	↓	↓	S		
	29	↓	↓	20	↓	↓	N		
	30	↓	↓	10	↓	↓	N		
	31	↓	↓	10	↓	↓	N		
	32	↓	↓	10	↓	↓	S		
	33	↓	↓	10	↓	↓	S		
	34	PANOGRAPH MOVES	↓	10	↓	↓	S		
	35	↓	↓	10	↓	↓	N		
	36	↓	↓	20	↓	↓	S		
	37	↓	↓	20	↓	↓	N		
	38	↓	↓	30	↓	↓	S		
	39	↓	↓	30	↓	↓	N		
	40	↓	↓	40	↓	↓	S		
	41	↓	↓	40	↓	↓	N		
	42	↓	↓	40	↓	↓	S		
	43	↓	↓	40	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG

SFO002

TYPE OF TEST: PERFORMANCE + NOISE

SHEET 16 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/4/76	45	1 ACCEL	100%	0-50	AWO	SF0002	N	*NON DOT 001 SETTING 590	TAPE A-4, B-4 DOT 001 ONLY
		2							
		3							
		4							
		5							
		6							
		7							
		8							
		9							
		10							
		11							
		12							
		13 CONTROL RESPONSE							
		14							
		15T							
		16T							
		17							
		18							
		19T							
		20T							
		21 SPEED CALS							
		22							
		23							
		24							
2/5/76	46	DUTY CYCLE PRACTICE							
2/9/76	47	1 NOISE TEST	100%	40	AWO	SF0002	N		
		2							
		3							
		4							
2/10/76	48	1 WAYSIDE NOISE	100%	40	AWO	SF0002	S		
		2							
		3							
		4							
		5							
		6							
		7							
		8							

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: NOISE

SHEET 17 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/11/76	49	NOISE	100%	40	AWO	ST002	Z		
	1	NOISE	100%	40			Z		
	2	100, 50'		40			Z		
	3			40			Z		
	4			40			Z		
	5			40			Z		
	6			40			Z		
	7			40			Z		
	8			40			Z		
	9			40			Z		
	10	MOBIES		40			Z		
	11			40			Z		
	12			30			Z		
	13			30			Z		
	14			20			Z		
	15			20			Z		
	16			20			Z		
	17			20			Z		
	18	AIR COMP OFF		20			Z		
	19			20			Z		
	20			10			Z		
	21			10			Z		
	22			0			Z		
	23	AIR COMP ON		40			Z		
	24			40			Z		
	25	AIR COMP ON		40			Z		
	26	200, 400		40			Z		
	27			40			Z		
	28			40			Z		
	29	ST 150		40			Z		
	30			40			Z		
	31			40			Z		
	32			40			Z		
	33			40			Z		
	34			40			Z		
	35	HIGH SPEED MOBIES		40			Z		
	36			40			Z		
	37			30			Z		
	38			30			Z		
	39			20			Z		
	40			20			Z		
	41			10			Z		
	42			10			Z		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: NOISE

SHEET 18 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/12/76	50	NOISE	100%		AW0	SF0002		580	INTERIOR NOISE DEPENDS ONLY DUE TO HIGH WINDS.
2/13/76	51	1 NOISE UNDERCAR EQUIPMENT ↓ 2 3 INTERIOR ↓ 4 5 6 7 ACCEL + FS. BRAKE 8 ACCEL 9 WALK-THRU 10 11 12 13	100%	15, 25, 35 15, 25, 35 50 50 0-50-0 0-20-0 40 40 40 40	AW0	SF0002	N S N S N S N S N S N S	580	WEST SIDE OF TRACK EAST SIDE OF TRACK ALL SYSTEMS ON
2/17/76	52	1 WAYSIDE NOISE ↓ 2 3 4 5 6 7 8 9 10 11 12 13 INTERIOR NOISE ↓ 14 15 16 17 18 19 20 21 ACCEL + FS. BRAKE 22 23	100%	40 40 40 50 40 40 40 30 20 10 10 20 15, 25, 35 15, 25, 35 50 50 15, 25, 35 15, 25, 35 50 50 0-50-0 0-50-0 0-20-0	AW3	SF0002	N S N S N S N S N S N S N S N S N S N S	580	SEAT LOCATIONS ↓

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: RIDE QUALITY

SHEET 20 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/25/76	54								TAPE A-7, B-7
	27	RIDE QUALITY	100%	50	AW3	SF0002	N		JOINTED / WELDED RAIL
	28	↓	↓	50	↓	↓	S		
	29	↓	↓	35	↓	↓	N		
	30	ACCEL. PADS LAT. STR. 350	↓	40	↓	↓	N		
	31	↓	↓	45	↓	↓	N		
	32	↓	↓	50	↓	↓	S		
	33	↓	↓	10	↓	↓	S		
	34	↓	↓	20	↓	↓	S		
	35	ORIGINAL INSTR.	↓	30	↓	↓	S		
	36	↓	↓	10	↓	↓	N		
	37	↓	↓	20	↓	↓	N		
	38	↓	↓	30	↓	↓	N		
	39	↓	↓	40	↓	↓	S		
40	↓	↓	40	↓	↓	N			
41	↓	↓	50	↓	↓	S			
42	↓	↓	50	↓	↓	N			
43	ACCEL.	↓	0-50	↓	↓	S			
44	ACCEL.	↓	0-50	↓	↓	N			
45	F.S. BRAKE	↓	50-0	↓	↓	S			
46	F.S. BRAKE	↓	50-0	↓	↓	N			
2/26/76	55								TAPE A-7, B-7
	1 T	RIDE QUALITY	100%	10	AW1	SF0002	N		WELDED RAIL CONCRETE TIES
	2	↓	↓	20	↓	↓	N		
	3	↓	↓	30	↓	↓	N		
	4	↓	↓	35	↓	↓	N		
	5	↓	↓	10	↓	↓	S		
	6	↓	↓	20	↓	↓	S		
	7	↓	↓	30	↓	↓	S		
	8	↓	↓	35	↓	↓	S		
	9	↓	↓	40	↓	↓	N		
	10	↓	↓	40	↓	↓	N		
	11	↓	↓	45	↓	↓	N		
	12	↓	↓	50	↓	↓	N		
	13	↓	↓	40	↓	↓	S		
14	↓	↓	45	↓	↓	S			
15	↓	↓	50	↓	↓	S			
16	INTER CAR BODY REC.	↓	35	↓	↓	N			
17	↓	↓	40	↓	↓	N			
18	↓	↓	45	↓	↓	N			
19	↓	↓	50	↓	↓	N			
20	MAX. CAR ACC. 350	↓	35	↓	↓	S			

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: RIDE QUALITY

SHEET 21 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/24/76	55								
	21	ACC PWD 8" CAR	100%	40	AW1	SF0002	S		WELDED RAIL CONCRETE TIES
	22			45			S		
	23			50			N		
	24	ACC STA 230		35			S		
	25			40			S		
	26			45			S		
	27			50			N		
	28			35			S		
	29	ACC MOVED TO STA 230		40			S		
	30			45			S		
	31			50			N		
	32	ACC MOVED TO STA 242		35			S		
	33	1" LIMIT		40			S		
	34			45			S		
	35			50			N		
	36	ACC MOVED TO STA 350		35			S		
	37	TORSIONAL		40			S		
	38			45			S		
	39			50			N		
	40	TRUCK PICK-UPS		35			S		
	41			40			S		
	42			45			S		
	43			50			N		
	44	BASIC CONFIG.		10			S		
	45			20			S		
	46			30			S		
	47	JOINTED RAIL - WOOD TIES		35			S		
	48			40			N		
	49			45			N		
	50			50			S		
	51			10			N		
	52			20			N		
	53			30			N		
	54			35			N		
	55			40			S		
	56			45			S		
	57			50			N		
	58	ACCEL		0-50			S		
	59	F.S. BRAKE		50-0			N		
	60	ACCEL.		0-50			N		
	61	F.S. BRAKE		50-0			N		
	62	BAGS DEF		10			S		
	63	" "		20			S		
									JOINTED RAIL WOOD TIES
									WELDED RAIL CONCRETE TIES
									"A" TRUCK BAGS DEFL. "B" TRUCK BAGS DEFL.

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: RISE QUALITY

SHEET 22 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/26/70	55	64T	A" & B" BAGS DEFLATED	100%	30	AW1	SF0002	S	Tape A-7, B-7
	65				40			S	
	66				10			N	
	67				20			N	
	68				30			N	
	69				40			N	
	70				50			N	
	71	ALL BAGS			10			S	
	72				20			S	
	73				30			S	
	74				40			N	
	75				50			N	
	76				40			S	
	77				50			S	
	78	A" BAGS INFLATED			10			N	
	79				20			N	
	80				30			N	
	81				40			N	
	82				10			S	
	83				20			S	
	84				30			S	
	85				40			S	
	86				50			N	
	87				50			S	
	88	CENTER DEFLATED			10			N	A" & B" BAGS INFLATED
	89				20			N	
	90				30			N	
	91				10			S	
	92				20			S	
	93				30			S	
	94				40			S	
	95				40			N	
	96				50			N	
	97				50			S	
	98	B" BAGS DEFLATED			10			N	A" & CENTER TRUCK INFLATED.
	99				20			N	
	100				30			N	
	101				40			N	
	102				10			S	
	103				20			S	
	104				30			S	
	105				40			S	
	106				50			N	
	107				50			S	

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: RIDE QUALITY

SHEET 23 OF 36

DATE	TEST NO. REC NO. NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/21/76	56	RIDE QUALITY	100%	10	AW2	SF0002	N		TAPE A-7, B-7 WELDED RAIL/ CONCRETE TIE
	2			20			N		
	3			30			N		
	4			35			N		
	5			40			N		
	6			10			S		
	7			20			S		
	8			30			S		
	9			35			S		
	10			40			S		
	11			50			N		
	12			50			S		
	13	ACCEL.		0-50			N		
	14	FS. BRAKE		50-0			N		
	15	ACCEL		0-50			S		
	16	FS. BRAKE		50-0			S		
	17			10			S		JOINTED RAIL/ WOOD TIES
	18			20			S		
	19			30			S		
	20			35			S		
	21			10			N		
	22			20			N		
	23			30			N		
	24			35			N		
	25			40			S		
	26			45			S		
	27			50			S		
	28			40			N		
	29			45			N		
	30	BLANK		50			I		
	31	ACCEL		0-50			S		
	32	FS. BRAKE		50-0			S		
	33	ACCEL		0-50			N		
	34	FS. BRAKE		50-0			N		
	35	STA 350		35			N		CONCRETE TIE/ WELDED RAIL
	36			40			N		
	37			45			N		
	38			50			S		
	39	STA 290		35			N		
	40			40			N		
	41			45			N		
	42			50			N		
	43	STA 230		35			S		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: RIDE QUALITY PERFORMANCE + NOISE

SHEET 24 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/27/76	56 44	STA 230 B UNIT	100%	40	AW2	SF0002	S		TAPE A-7, B-7
	45	↓	↓	45	↓	↓	S		
	46	↓	↓	50	↓	↓	S		
	47	STA 242 A UNIT	↓	35	↓	↓	N		
	48	↓	↓	40	↓	↓	N		
	49	↓	↓	45	↓	↓	N		
	50	↓	↓	50	↓	↓	N		
	51	↓	↓	35	↓	↓	S		
	52	STA 350 FOR TORSION	↓	40	↓	↓	S		
	53	↓	↓	45	↓	↓	S		
	54	↓	↓	50	↓	↓	S		
	55	↓	↓	35	↓	↓	N		
	56	↓	↓	40	↓	↓	N		
	57	↓	↓	45	↓	↓	N		
58	↓	↓	50	↓	↓	N			
3/1/76	57 1	PERFORMANCE ACCEL	100%	0-50	AWO	SF0002	N		
	2	↓	↓	↓	↓	↓	S		
	3	↓	↓	↓	↓	↓	S		
	4	↓	↓	↓	↓	↓	N		
3/1/76	58 1	ACCEL	100%	0-50	AWO	SF0002 M80002	S		
	2	↓	↓	↓	↓	↓	N		
	3	↓	↓	↓	↓	↓	S		
	4	↓	↓	↓	↓	↓	N		
	5	F.S. BRAKE	↓	50-0	↓	↓	S		
	6	↓	↓	50-0	↓	↓	N		
3/2/76	59 1	WAYSIDE ACCEL	100%	0-50	AWO	SF0002 M80002	N		
	2	↓	↓	↓	↓	↓	S		
	3	↓	↓	↓	↓	↓	S		
	4	↓	↓	↓	↓	↓	N		
	5	↓	↓	↓	↓	↓	S		
	6	↓	↓	↓	↓	↓	N		
	7	F.S. BRAKE	↓	↓	↓	↓	S		
	8	FRICTION	↓	↓	↓	↓	N		
	9	F.S. BRAKE	50%	↓	↓	↓	S		
	10	↓	100%	↓	↓	↓	N		
	11	↓	↓	↓	↓	↓	S		
	12	↓	↓	↓	↓	↓	S		
	13	↓	↓	↓	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE + NOISE

SHEET 25 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"F" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/2/76	59	F.S. BRAKE	100%	30	AWO	SF0002 MB0002	N		
	14	↓	↓	50					
	15	↓	↓	50					
	16	↓	↓	50					
	17	ACCEL	50%	0-45					
3/3/76	60	WAYSIDE NOISE	100%	50	AWO	SF0002 MB0002	N		50' WAYSIDE - WEST SIDE OF TRACK
	1	↓		40					
	2	↓		40					
	3	↓		30					
	4	↓		20					
	5	↓		10					
	6	↓		10					
	7	↓		50					
	8	↓		40					
	9	↓		30					
	10	↓		20					
	11	↓		10					
	12	↓		30					
	13	↓		40					
	14	↓		50					
	15	↓		20					
3/8/76	61	SLIP/SLIDE	100%	30-10	AWO	SF0002	S		NO SLIP/WATER ONLY
	1	F.S. BRAKE		30-0					
	2	↓		30-0					
	3	↓		30-0					
	4	↓		50-0					
	5	↓		30-10					
	6	↓		30-10					
	7	↓		40-0					
	8	↓		0-50					
	9	ACCEL		40-0					
	10	F.S. BRAKE		40-0					
	11	↓		40-0					
	12	↓		50-0					
	13	↓		40-0					
	14	↓		20-0					
	15	ACCEL BASE		0-30					
16	↓	0-30							

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 26 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	*P* SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/9/76	62	PANTOGRAPH TEST							
3/10/76	63	SLIP/SLIDE SPEED CALIB	100%	30	AWO	SF0002	N		TAPE A-5, B-5
	1		↓	30	↓	↓	S		
	2		↓	30	↓	↓	S		
	3		↓	50	↓	↓	S		
	4		↓	50	↓	↓	S		
	5	FRICION ONLY	↓	30	↓	↓	S		NO SLIP
	6		↓	30	↓	↓	S		SLIDES
	7		↓	30	↓	↓	S		
	8		↓	30	↓	↓	S		
	9		↓	40	↓	↓	S		
	10		↓	40	↓	↓	S		
	11		↓	50	↓	↓	S		
	12		↓	50	↓	↓	S		
	13		↓	50	↓	↓	S		
	14		↓	50	↓	↓	S		1 RAIL WET
	15		↓	50	↓	↓	S		SLIDES
	16		↓	50	↓	↓	S		REFILL WATER ONLY
	17		↓	50	↓	↓	S		SLIDES
	18		↓	50	↓	↓	S		
	19		↓	40	↓	↓	S		
	20		↓	40	↓	↓	S		
	21		↓	20	↓	↓	S		
	22	NO GOOD	↓	20	↓	↓	S		
	23		↓	20	↓	↓	S		
3/11/76	64	SLIP/SLIDE FRICION ONLY	.00%	20	AWO	SF0002	S		TAPE A-5, B-5
	1		↓	20	↓	↓	S		NO SLIP
	2		↓	20	↓	↓	S		" "
	3		↓	20	↓	↓	S		" "
	4		↓	40	↓	↓	S		SLIDES
	5		↓	20	↓	↓	S		
	6		↓	20	↓	↓	S		
	7		↓	20	↓	↓	S		
	8		↓	20	↓	↓	S		
	9		↓	20	↓	↓	S		
	10		↓	20	↓	↓	S		
	11		↓	20	↓	↓	S		
	12		↓	20	↓	↓	S		
	13		↓	20	↓	↓	S		
	14	F.S. BRAKE	↓	50	↓	↓	S		
	15		↓	50	↓	↓	S		
									2PTS/50 GAL SLIDES

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 21 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
3/11/76	64	SLIP/SLIDE							TAPE A-5, B-5	
	16	F.S. BRAKE	100%	30	AWO	SF0002	S			
	17	↓	↓	30	↓	↓	S			
	18	↓	↓	30	↓	↓	S			
	19	↓	↓	30	↓	↓	S			
	20	↓	↓	30	↓	↓	S			
	21	↓	↓	20	↓	↓	S			
	22	↓	↓	20	↓	↓	S			
	23	↓	↓	20	↓	↓	S			
	24	↓	↓	20	↓	↓	S			
	25	↓	↓	20	↓	↓	S			
	26	↓	↓	15	↓	↓	S			
	27	↓	↓	15	↓	↓	S			
	28	↓	↓	15	↓	↓	S			
	29	↓	25%	15	↓	↓	S			
	30	ACCEL			0-30			S		NO SLIPS
	31	↓			0-30			S		↓
	32	↓			0-30			S		
	33	↓			0-30			S		
34	F.S. BRAKE			50			S	SLIDES		
35	↓			50			S	↓		
36	↓			50			S			
37	↓			40			S			
38	↓			40			S			
3/15/75	65	SLIP/SLIDE							TAPE A-5, B-5 ALL TRUCKS NOT SLIDING 2 NOZZLES "A" TRUCK	
	1	F.S. BRAKE	100%	40	AWO	SF0002	S			
	2	↓	↓	40	↓	↓	S			
	3	↓	↓	40	↓	↓	S			
	4	↓	↓	40	↓	↓	S			
	5	↓	↓	40	↓	↓	S			
	6	↓	↓	40	↓	↓	S			
	7	FRICION ONLY			40			S		
	8	F.S. BRAKE			40			N		
	9	↓			40			S		
	10	↓			40			N		
	11	↓			40			S		
	12	↓			40			S		
	13	↓			40			S		
	14	↓			40			S		
	15	ACCEL			0-30			S		5 PTS. DOC/55 GAL
	16	↓			0-30			S		NO SPIN
17	↓			0-30			S	↓		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 23 OF 30

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/15/75	65	SLIP/SLIDE							NO SPIN STRAIGHT LOC SPIN TO BASE SPEED
		ACCEL	100%	0-30	AWO	SF0002	S		
		↓	↓	0-30	↓	↓	S		
		↓	↓	0-30	↓	↓	S		
		↓	↓	0-45	↓	↓	S		
3/16/76	66	TRAIN LINE PERFORMANCE DYNAMIC ONLY	100%	30	AWO	SF0002 SF0003	S	TAPE A-5, B-5	
		↓	↓	40	↓	↓	S		
		↓	↓	50	↓	↓	S		
		↓	↓	50	↓	↓	N		
		↓	50%	50	↓	↓	B		
		FRICION ONLY	100%	30	↓	↓	S		
		↓	↓	30	↓	↓	N		
		↓	↓	40	↓	↓	S		
		↓	↓	50	↓	↓	S		
		↓	↓	47	↓	↓	N		
		↓	50%	50	↓	↓	S		
		EMERGENCY	100%	50	↓	↓	N		
		↓	↓	50	↓	↓	S		
		↓	↓	50	↓	↓	N		
		↓	↓	40	↓	↓	S		
		↓	↓	30	↓	↓	S		
		↓	↓	30	↓	↓	N		
3/17/76	67	FRICION + TRACK	100%	50	AWO	SF0002	N		
		↓	↓	40	↓	↓	N		
		↓	↓	48	↓	↓	S		
		↓	↓	50	↓	↓	S		
		↓	↓	40	↓	↓	S		
		↓	↓	30	↓	↓	S		
		↓	↓	20	↓	↓	S		
		TRACK ONLY	↓	30	↓	↓	S		
		↓	↓	30	↓	↓	S		
3/18/76	68	F.S. BRAKE	100%	50	AW3	SF0002 SF0003	S	TAPE A-b, B-b	
		↓	↓	49	↓	↓	N		
		↓	75%	50	↓	↓	S		
		↓	50%	50	↓	↓	S		
		↓	25%	50	↓	↓	S		
		↓	100%	40	↓	↓	S		
		↓	↓	30	↓	↓	S		
		DYNAMIC	↓	50	↓	↓	S		
		↓	↓	50	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 29 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/18/76	68								TAPE A-6, B-6
	10	DYNAMIC	75%	50	AW3	SF0002 SF0003	S		
	11		30%	50			S		
	12		25%	50			S		
	13	EMERGENCY	100%	50			S		
	14			50			S		
	15			30			X		
	16			30			S		
	17	TRACK BRK		30			S		
	18			30			X		
	19			30			S		
	20	ACCEL		0-50			X		
	21			0-50			S		
	22			0-50			X		
	23			0-50			S		
	24	FRICION	100%	50			X		
	25		100%	50			S		
	26		75%	50			S		
	27		50%	50			S		
	28		25%	50			S		
	29		100%	50			X		
	30		100%	50			S		
	31		100%	50			S		
	32		75%	50			S		
	33		50%	50			S		
	34		50%	50			S		
35		25%	50	S					
3/19/76	69								TAPE A-6, B-6
	1	FS BRAKE	100%	20	AW3	SF0002	S		
	2		75%	20			S		
	3		50%	20			S		
	4		25%	20			S		
	5		100%	30			S		
	6		75%	30			S		
	7		75%	30			S		
	8		50%	30			S		
	9		25%	30			S		
	10		100%	40			S		
	11		75%	40			S		
	12		50%	40			S		
	13		25%	40			S		
	14		100%	50			S		
15		75%	50	S					

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 30 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:		
3/19/76	69	16 F.S. BRAKE	75%	50	AW3	SF0002	S		TAPE A-6, B-6		
		17 ↓	50%	50							
		18 ↓	25%	50							
		19 FRICTION ONLY	100%	20						S	
		20 ↓	75%	20							
		21 ↓	50%	20							
		22 ↓	25%	20							
		23 ↓	100%	30							
		24 ↓	75%	30							
		25 ↓	50%	30							
		26 ↓	25%	30							
		27 ↓	100%	40							
		28 ↓	75%	40							
		29 ↓	50%	40							
		30 ↓	25%	40							
		31 ↓	100%	50							
		32 ↓	75%	50							
		33 ↓	50%	50							
		34 ↓	25%	50							
		35 DYNAMIC	100%	50							S
		36 ↓	75%	50							
		37 ↓	50%	50							
		38 ↓	25%	50							
		39 ↓	100%	40							
		40 ↓	75%	40							
		41 ↓	75%	40							
		42 ↓	50%	40							
		43 ↓	25%	40							
		44 ↓	100%	30							
		45 ↓	75%	30							
		46 ↓	25%	30							
3/20/76	70 1 THRU 43	EMERGENCY BRAKE INVESTIGATION TR #017			AW3	SF0002	CAR IN TMB				
3/22/76	71	1 No Good			AW3	SF0002	N		TAPE A-6, B-6 31-LEVEL CONNECTED		
		2 F.S. BRAKE	100%	50							
		3 ↓	↓	50							
		4 ↓	↓	20							
		5 ↓	↓	50							

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 31 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:									
3/22/76	71	6	100%	30	AW3	SF0002	S		TAPE A-6, B-6									
		7		50						S								
		8		40						S								
		9		20						S								
		10		50						S								
		11		20						S								
		12		30						S								
		13		40						S								
		14		20						S								
		15		50						N								
		16		50						S								
		17		50						S								
		18		BI-LEVEL CONNECTED						50	S							
		19								30	S							
		20								20	S							
		21								40	S							
		22		DISCONNECTED						50	S							
		23								30	S							
		24								20	S							
		25								40	S							
		26								50	N							
		27		CONNECTED						50	N							
		28		F.S. BRAKES						50	N							
		29		ACCEL						0-50	N							
		30								0-50	S							
		3/23/76		72						1	100%	50	AW3	SF0002	S		TAPE A-8, B-8	
										2		30						S
										3		30						S
										4		40						S
										5		30						S
6	20		S															
7	20		S															
8	75%		50		S													
9			20		S													
10			40		S													
11			30		S													
12	50%		50		S													
13			20		S													
14			40		S													
15			30		S													

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 32 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/23/76	72	DYNAMIC ONLY ↓ NG DYNAMIC ONLY ↓ ↓	25% ↓ ↓ 100% ↓	50	AW3	SF0002	S		TAPE A-8, B-8
				20			S		
				40			S		
				30			S		
				30			S		
				20			S		
				50			Z		
				20			Z		
				40			Z		
				30			Z		
3/23/76	73	AUTO SPEED CONT ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	50, 35, 10	↓	↓	Z		
				50			Z		
				50			Z		
				35			Z		
				35			Z		
				15			Z		
				20			Z		
				20			Z		
				20			Z		
				35			Z		
				35			Z		
				50			Z		
				50			Z		
				50			Z		
				35			Z		
				3/24/76			74		F.S. BRAKE ↓ ACCEL ↓ SPRING BRK TOW TEST ↓ ↓
30	Z								
0-50	Z								
0-50	S								
-	Z								
-	Z								
-	TMB								
-	TMB								
3/25/76	75	SPRING BRAKE TOW TEST ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓		AW3	SF0002	TMB		NEW CENTER TRUCK ACTUATORS

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 33 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"F" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/25/76	76	1 EMERGENCY 2 CONTROL 3 RESPONSE 4 5 6	100%		AW3	SF0002			TAPE A-8, 3-8 OPTION 1 OPTION 2
3/26/76	77	1 EMERGENCY 2 3 4 5 6 7 8 9 CONTROL 10 RESPONSE 11 12 13 POWER 14 ISOLATION 15 GAP 16 17 18	100%	0 50 30 20 10 40 30 0 30 26	AW3	SF0002 SF0003	S S S S S S S		TAPE A-8, 3-8 OPTION 1 OPTION 1 OPTION 2 OPTION 2 ACCEL DECEL STEADY DECEL
3/27/76	78	1 DUTY CYCLE	100%		AW2	SF0002			TAPE A-8, 3-8 ABORTED DEAD PROPULSION
3/30/76	79	1 EMERGENCY 2 BLEND BRAKE	100%		AW3	SF0002	S		TAPE A-9, 3-9
3/31/76	80	1 ACCEL 2 FS. BRAKE 3 4 5 6 CONTINUOUS 7 SPEED	100%	0-50 30 40 35 30 50 54	AW3	SF0002	N N N S		TAPE A-9, 3-9

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 34 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
4/1/76	81	1 F.S. BRAKE	100%	50	AW3	SF0002 SF0003	S S S S S		TAPE A-9, B-9 MODIFIED EMERGENCY BRK
		2 ↓		20					
		3 ↓		30					
		4 ↓		10					
		5 ↓		50					
		6 ↓		40					
		7 EMERGENCY		50					
		8 ↓		20					
		9 ↓		10					
		10 ↓		30					
		11 ↓		50					
		12 ↓		40					
		13 NO GOOD							
		14 EMERGENCY		45					
		15 ↓		45					
4/2/76	82	1 ACCEL	100%	0-50	AW2	SF0002 SF0003	S N S S S S S S S S S N N S S S S S S S N N		TAPE A-9, B-9 NO GOOD NO GOOD NO GOOD NO RECORD NO GOOD NO GOOD NO GOOD NO GOOD
		2 ↓		0-50					
		3 BLEND BRAKE		50					
		4 ↓		20					
		5 ↓		20					
		6 ↓		50					
		7 ↓		40					
		8 ↓		30					
		9 ↓		30					
		10 ↓		50					
		11 ↓		20					
		12 ↓		50					
		13 ↓		-					
		14 ↓		50					
		15 ↓		50					
		16 ↓		50%					
		17 ↓		20					
		18 ↓		40					
		19 ↓		30					
		20 FRICTION		100%					
		21 ↓		50					
		22 ↓		50%					
		23 ↓		100%					
		24 ↓		50					
		25 ↓		50					
		26 ↓		50%					
		27 EMERGENCY		100%					
	50-								
	50								

SLRV ENGINEERING TEST RUN LOG

SF 0002 & SF0003

TYPE OF TEST: PERFORMANCE

SHEET 36 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
	87	CAB SIGNAL	100% ↓						
5/14/76	88	TRUCK SHOCK TEST			AW2 ↓	SF0002 ↓			
5/24/76	89	DRIFT-TEST	100% ↓	50 46 41 30 16 50 41	AW2 ↓	SF0002 ↓	Z Z Z Z Z Z Z		

B. TOTAL TEST LOG ON CAR SF0003

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/4/75	5	1 ACCEL	100%	0-50	AWO	SF0003	S		
		2 ↓		0-50					
		3 ↓		0-50					
		4 ↓		0-50					
		5 SPEED CALIB.		50					
		6 ↓		50					
		7 ↓		40					
		8 ↓		40					
		9 ↓		30					
		10 ↓		30					
		11 ↓		30					
		12 FS. BRAKE		30					
		13 ↓		30					
		14 ↓		40					
		15 ↓		40					
		16 FRICTION ONLY		40					
		17 FS BRAKE		40					
		18 FS. BRAKE		40					
		19 FRICTION ONLY		40					
		20 ↓		40					
		21 ↓		40					
		22 ↓		40					
		23 DYN. ONLY		40					
		24 ↓		40					
		25 EMERGENCY		40					
		26 ↓		30					
		27 ↓		40					
		28 ↓		30					
		29 ACCEL		0-50					
		30 ↓		0-50					
		31 ↓		0-50					
11/7/75	6	1 ACCEL	100%	0-50	AWO	SF0003	N		
		2 ↓							
		3 ↓							
		4 ↓							
		5 ↓							
		6 ↓		0-50					
		7 FS. BRAKE							
		8 ↓							
		9 ↓							
		10 ↓							

SLRV ENGINEERING TEST RUN LOG

SF0003

TYPE OF TEST: PERFORMANCE

SHEET 2 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:							
11/7/75	6	11	100%	38.5	AWO	SF0003	N									
	12	↓		31												
	13	F.S. BRAKE		40												
	14	FRICITION		31												
	15	↓		40												
	16			30.5												
	17	EMERGENCY		40												
	18	↓		31												
	19			30												
	20	↓		47												
	21			30												
	22	↓		30												
	23	DYNAMIC		48.5												
	24	↓		48												
	25	ACCEL		-												
	26	↓		-												
	27			-												
	28	↓		0-50												
	29			0-50												
	11/13/75	7		1						50%	35	AWO	SF0003	N		
		2		↓							35					
		3									35					
		4		↓							35					
		5									35					
		6		↓							35					
		7		FRICITION							35					
		8		↓							35					
		9		TRACK BRK							35					
		10		↓							35					
11		F.S. BRAKE	35													
12		FRICITION	35													
13		↓	35													
14			35													
15		CONST. SPEED	50													
16		↓	50													
17		EMERGENCY	35													
18		↓	35													
19			35													
20		↓	35													
21		TRACK BRK.	35													
22		EMERGENCY	35													

ACCELEROMETER MOVED.

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OF INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/13/75	7	23 EMERGENCY	100%	50	AWO	SF0003	N		
	24	↓		10					
	25	↓		10					
	26	TRACK		35					
	27	F.S. BLEND		35/15					
	28	EMERGENCY		50					
	29	↓		35					
11/21/75	8	1 ACCEL	100%	0-50	AWO	SF0003	N		
	2	↓		0-50					
	3	EMERGENCY		35					
	4	↓		35					
	5	↓		35					
	6	↓		35					
	7	ACCEL		0-50					
	8	FRICTION		35					
	9	↓		35					
	10	↓		35					
	11	↓		35					
	12	ACCEL		0-50					
	13	↓		0-50					
	14	EMERGENCY		35					
	15	↓		35					
	16	↓		35					
	17	↓		36.5					
	18	↓		35.5					
	19	↓		35					
	20	F.S + TRACK		35/20					
	21	↓		35/20					
12/2/75	9	1 SPEED CALIB	100%	40	AWO	SF0003	N		
	2	↓		40					
	3	FRICTION		30					
	4	↓		30					
	5	↓		30					
	6	EMERGENCY		30					
	7	↓		30					
	8	↓		20					
	9	ACCEL		0-50					
	10	↓		0-50					
	11	↓		0-50					
	12	↓		0-50					

CENTER AIR BAGS DOWN

SLRV ENGINEERING TEST RUN LOG

SF0003

TYPE OF TEST: PERFORMANCE, NOISE & RFI

SHEET 4 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
12/2/75	9	13	EMERGENCY	100%	30	AWO	SF0003	N	
		14	↓	↓	30	↓	↓	S	
		15	ACCEL	↓	0-50	↓	↓	S	
		16	↓	↓	0-50	↓	↓	N	
12/4/75	10	1	SPEED CALIB	100%	30	AWO	SF0003	N	
		2	↓	↓	40	↓	↓	N	
		3	↓	↓	49	↓	↓	S	
		4	↓	↓	20	↓	↓	N	
		5	ACCEL	↓	0-50	↓	↓	S	
		6	↓	↓	0-50	↓	↓	N	
		7	↓	↓	0-50	↓	↓	S	
		8	↓	↓	0-50	↓	↓	N	
		9	F.S. BRAKE	↓	30	↓	↓	S	
		10	↓	↓	30	↓	↓	N	
		11	↓	↓	50	↓	↓	S	
		12	↓	↓	50	↓	↓	N	
		13	DYNAMIC BRK	↓	30	↓	↓	S	
		14	↓	↓	30	↓	↓	N	
		15	↓	↓	50	↓	↓	S	
		16	↓	↓	50	↓	↓	N	
		17	FRICION BRK	↓	30	↓	↓	S	
1/8/76	11	CAB SIGNAL	100%		AW2	SF0003			
2/13/76	12	INTERIOR NOISE SURVEY	100%		AWO	SF0003			
4/12/76	13	RADIO FREQUENCY INTERFER.	100%		AW2	SF0003			
4/13/76	14	RADIO FREQUENCY INTERFER.	100%		AW2	SF0003			
4/21/76	15	RADIO FREQUENCY INTERFER	100%		AW2	SF0003			
4/22/76	16	RADIO FREQUENCY INTERFER	100%		AW2	SF0003			

SLRV ENGINEERING TEST RUN LOG

SF0003

TYPE OF TEST: PERFORMANCE + RFI

SHEET 5 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
4/27/76	17	CAB SIGNAL	100% ↓		AW2 ↓	SF0003			
4/28/76	18	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
4/29/76	19	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
4/30/76	20	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
5/3/76	21	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
5/4/76	22	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
5/4/76	23	RADIO FREQUENCY INTERFER	100% ↓		AW2 ↓	SF0003			
6/4/76	24	1 PERFORMANCE 2 ACCEL 3 F.S. BRAKE 4 FRICTION 5T ACCEL / F.S. BRAK 6T " "	100% ↓ ↓ ↓ ↓ ↓	50 50 35 35 35 50	AW2 ↓ ↓ ↓ ↓ ↓	SF0003	S N S S S N		TAPE A-16, B-16
6/8/76	25	1 DRIFT TEST 2 3 4 5 6 7 8 9 F.S. BRAKE 10 BCP CHECK	100% ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	50 50 40 40 27 27 5 5 35 35	AW2 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	SF0003	S N S S N S S S S S		TAPE A-16, B-16

SLRV ENGINEERING TEST RUN LOG

SF 0003

TYPE OF TEST: PERFORMANCE & POWER CONSUMPTION SHEET 8 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
6/18/76	33 11 12 13	SPEED ↓	100	50 52 51	AWO	SF003 M8002	N/S Z S		TAPE A-15, B-15
6/21/76	34 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CONTROL RESPONSE ↓ JERK LIMIT ↓ EMERGENCY BRAKE ↓	E ↓	30 40 50 20 30 10 50 20 10 40	AW2	SF0003	N ↓ S S Z ↓ S ↓ Z		TAPE A-15, B-15
6/22/76	35	DUTY CYCLE			AWZ	SF0003			TAPE A-17, B-17 Low Accel Rate
6/23/76	36 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ACCEL ↓ DYN. BRAKE ACCEL ↓ SLIP/SLIDE FSB+TRMX ↓ ACCEL ↓ POWER CONSUMPTION DUTY CYCLE BLENDING BRAKE ↓ ACCEL	100% 100% 100%	30 38 30 40 20 10 20 10 50 40 40 50 50	AWZ	SF0003	N S S N N N N S S Z Z	480 660	ADJUSTED FULL POWER VOLTAGE TAPE A-18, B-18

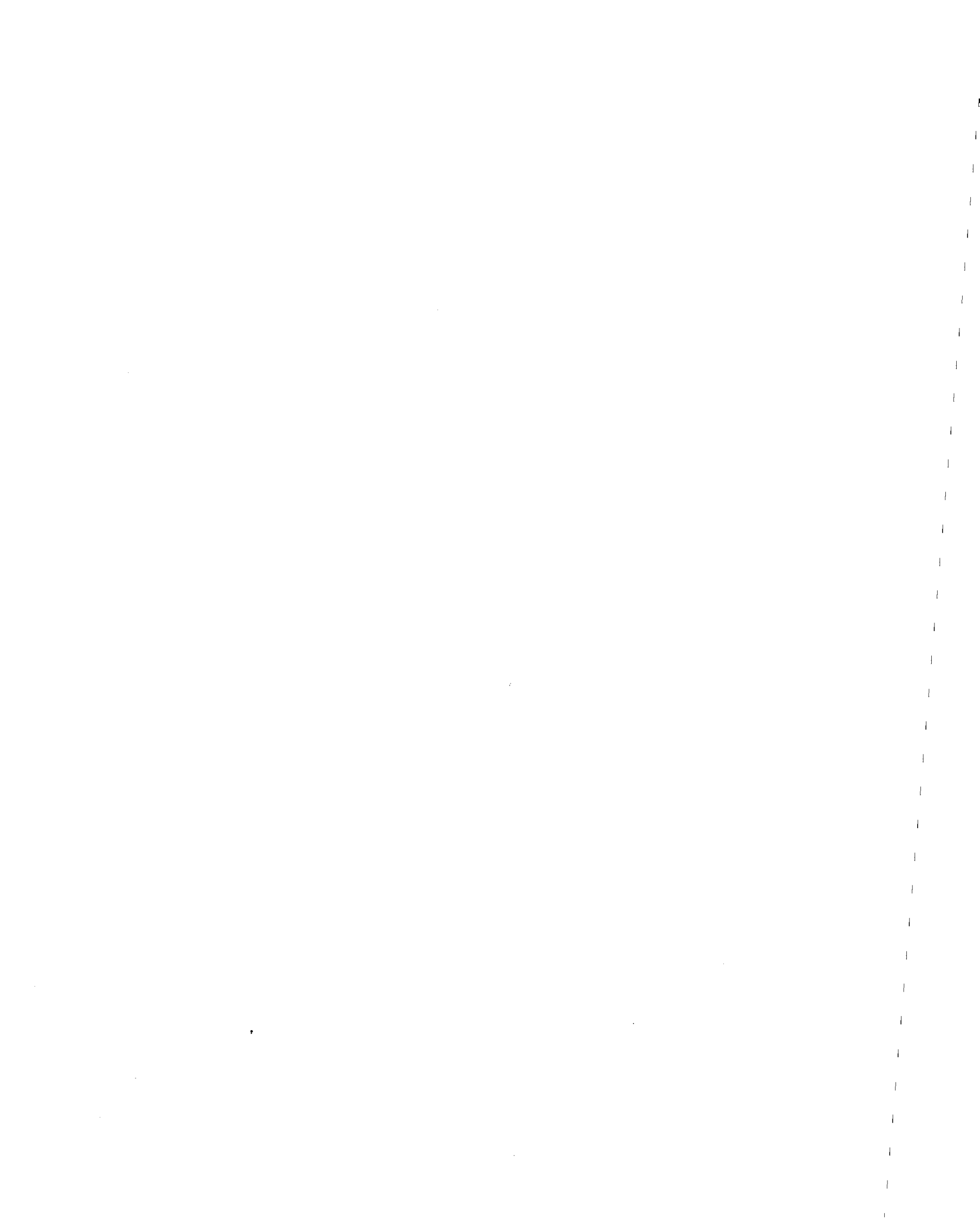
SLRV ENGINEERING TEST RUN LOG

SF0003

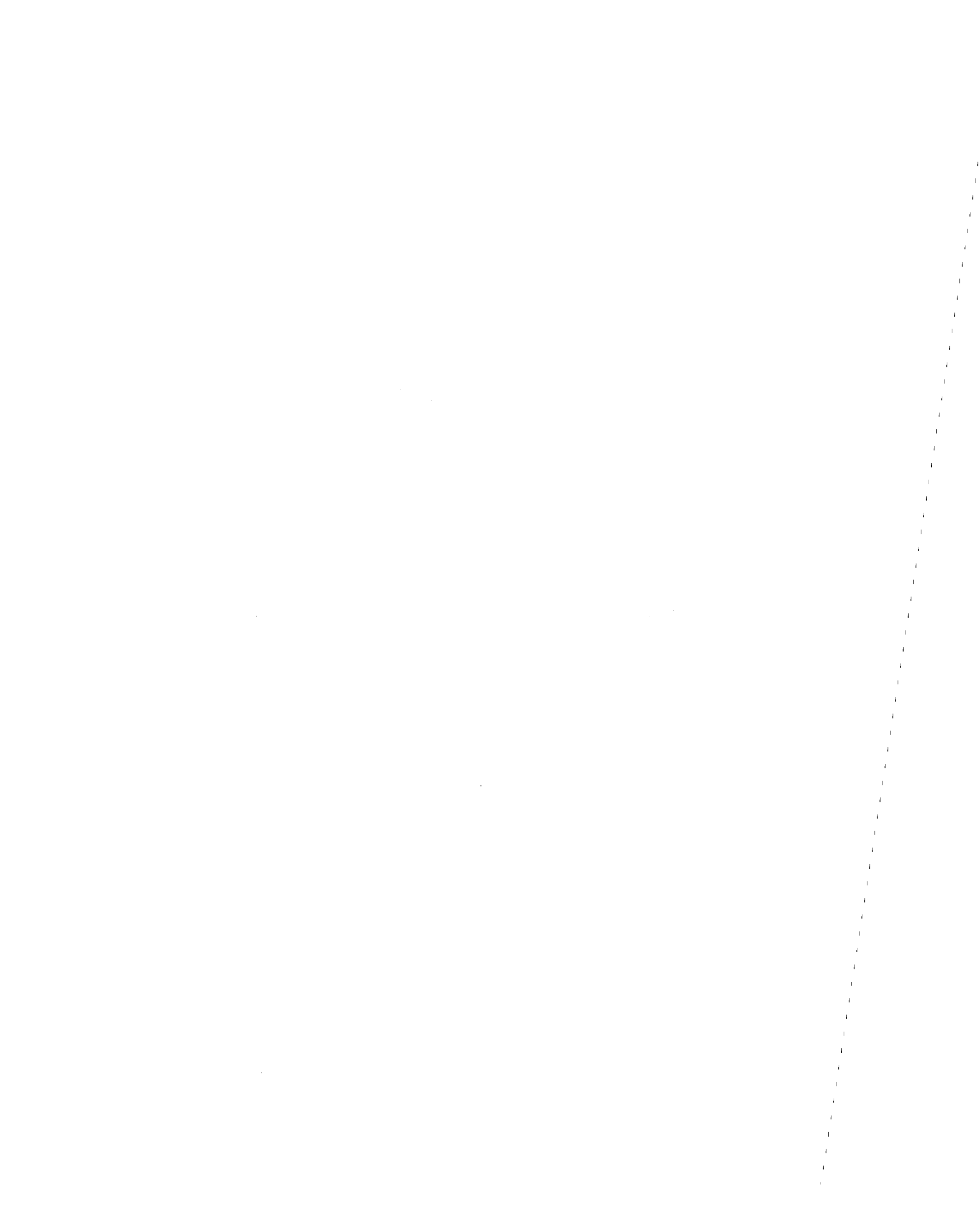
TYPE OF TEST: PERFORMANCE & POWER CONSUMPTION

SHEET 9 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
6/24/76	37	1 ACCEL		50	AW2	SF0003		680	TAPE A-18, B-18
	2	POWER CONSUMPTION							
	3	DUTY CYCLE						750	672V ~ Max Act. BLENDED BRAKE
	4	DUTY CYCLE						575	TAPE A-19 B-19 FRICTION ONLY BRAKE
	5	DUTY CYCLE							
	6	DECEL FRICTION ONLY		50					
6/25/76	38	1 ACCEL	100%	50	AW2	SF0003	N	575	
	2	"		50			S		
	3	POWER CONSUMPTION DUTY CYCLE BLENDED							TAPE A-20, B-20
	4	DUTY CYCLE FRICTION ONLY							TAPE A-21 B-21



C. TOTAL TEST LOG ON CAR MB0002



SLRV ENGINEERING TEST RUN LOG

MB 0002

TYPE OF TEST: PERFORMANCE, Noise & RFI

SHEET 1 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"F" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1-9-76	1 1 2 3 4 5 6 7 8 9 10	PEEL ↓ F.S. BRAKE ↓ EMERGENCY "	100%	0-50 ↓ 50 50 30 30 30	AW0	MB0002	N S Z S Z S Z S Z S		
2-18-76	2 1 2 3	INTERIOR NOISE ↓	-	0 ↓	AW3	MB0002	-		
2-19-76	3 1 2 3 4 5 6 7 8	NOISE SURVEY W/C EQUIP WANS-DE " INTERIOR " WATERS (WAST) " (ENST) " ("") " "	-	0	AW3	MB0002	-		Coupled to S Power
4/7/76	4 1 21 22 48	R.F.I. CHECKOUT ↓ INTERIOR SURVEY		/	AW0	MB0002			
4/8/76	5 1 21 22 66	R.F.I. CHECKOUT ↓ INTERIOR SURVEY ↓		/	AW0	MB0002			
4/9/76	6	R.F.I. NO TESTS		/	AW0	MB0002			POWER SUPPLY SHORTED

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: RFI

SHEET 2 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
4/14/76	7 1 2 3 109	<u>RFI</u> EXTERIOR ↓ INTERIOR SURVEYS		≤ 35	AWO	MB0002			
4/15/76	8 1 2 3 102	<u>RFI</u> EXTERIOR ↓ INTERIOR SURVEYS		≤ 35	AWO	MB0002			EXTERIOR H. FIELDS INTERIOR E. FIELDS
4/14/76	9 1 2 3 45	<u>RFI</u> WAYSIDE SURVEY AT SOFT.	100%	≤ 50	AWO	MB0002	S		WAYSIDE MEASUREMENT AT STN 290 - SOFT. FROM TANK 9. (EAST)
4/19/76	10 1 68-151 AT 100 FT	<u>RFI</u> WAYSIDE SURVEY AT 50 FT.	100%	≤ 50	AWO	MB0002	S		

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: RFI

SHEET 3 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
4/20/76	11	RFI	100%	≤ 50	AWO / AWZ	M8000Z / SF002	S		2 CAR TRAIN. STN 290, 100 FT FROM TRACK & ON EAST SIDE	
		1 2 3 ↓ 92 93	WAYSIDE SWAYBY AT 100 FT ↓ 4/5 AT 100 FT	↓	↓	↓ AWO	↓ M8000Z	↓		
4/23/76	12	1 ↓ 4			AWO / AWZ	M8000Z / SF002			TEST ABORTED.	
5/5/76	13	RFI	~	50	AWO	M8000Z	S		2 CAR TRAIN	
		1	WAYSIDE 100 FT	↓	↓	↓	↓			
		22 23	WAYSIDE 50 FT	↓	↓	↓	↓			
		58 59	WAYSIDE 100 FT	~	50	AWO / AWZ	M8000Z / SF002	S		
		69 70	WAYSIDE 50 FT	↓	↓	↓	↓			
		80 81	WAYSIDE 50 & 100 FT	~	0	AWZ	SF002Z	S		
110		↓	↓	↓	↓					

APPENDIX I — DATA LOG

Collated by GVTP Test Number

Referencing — SLRV Test Number/Record Number

— Magnetic Tape Number

DATA LOG

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
P-2001	Acceleration Performance	AWO	58	1-4	-	2 Car
			37	4-8	A-5, B-3	
			59	1-4, 17, 18	-	2 Car
			23	6-12	A-2, B-2	
			31 (SF3)	6-9	A-15, B-15	2 Car
			25	1-10	A-2, B-2	(Volts min, max, normal)
			30 (SF3)	11-15	A-14, B-14	2 Car
			35	2	A-3, B-3	
			74	3, 4	A-8, B-8	
			68	22, 23	A-6, B-6	2 Car
P3001	Deceleration Blended Brks	AWO	32 (SF3)	1-4	A-15, B-15	2 Car
			5	3-10	A-1, B-1	
			37	11-23	A-3, B-3	
			23	17-27	A-2, B-2	
			82	3-18	A-9, B-9	2 Car
			86	4-7	A-11, B-11	2 Car
			69	1-18	A-6, B-6	
			74	1, 2	A-8, B-8	
			32 (SF3)	5-12	A-15, B-15	2 Car
			81	1-6	A-9, B-9	2 Car
P-3002	Deceleration Friction Brks	AWO	5	11-14, 16-20	A-1, B-1	
			37	24-29	A-3, B-3	
			38	1-12	A-4, B-4	
			66	6-11	A-5, B-5	2 Car

DATA LOG (CONTINUED)

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
P-3002	Deceleration Friction Brks	AWO	33 (SF3)	1-9	A-15, B-15	2 Car
			23	30-37	A-2, B-2	
			82	23-25	A-9, B-9	2 Car
			86	9-11	A-11, B-11	2 Car
			35	39-46	A-3, B-3	
			77	1-8	A-8, B-8	2 Car
			6	9-17	A-1, B-1	
P-3003	Deceleration Dynamic Brks	AWO	38	19-26	A-4, B-4	
			39	1-8	A-4, B-4	
			66	1-5	A-5, B-5	2 Car
			24	9-17	A-2, B-2	
			82	29-31	A-9, B-9	2 Car
			69	35-46	A-6, B-6	
			6	2-8		No mag tape
P-3004	Deceleration Emergency Brk	AWO	39	21-33	A-4, B-4	
			66	12-17	A-5, B-5	2 Car
			24	18-25	A-2, B-2	
			82	27, 28	A-9, B-9	2 Car
			34 (SF3)	11-20	A-15, B-15	
			31 (SF3)	1-5	A-15, B-15	2 Car
			35	5-24	A-3, B-3	
	77	2-7	A-8, B-8	2 Car		
	81	7-15	A-9, B-9	2 Car		

(modified)

DATA LOG (CONTINUED)

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
P-4001	Drift Test	AW0	26	4-9	A-3, B-3	
		AW2	86	17-23	A-11, B-11	2 Car
			25 (SF3)	1-8	A-16, B-16	
			30 (SF3)	2-9	A-14, B-14	2 Car
			64	30-33	A-5, B-5	No Slips
P-2011	Spin/Slide Acceleration	AW0	65	15-21	A-5, B-5	
		AW0	64	14-29, 34-37	A-5, B-5	
P-3011	Spin/Slide Blended, Decl	AW0	64	4-13	A-5, B-5	
		AW0	63	5-23	A-5, B-5	
PC-5011	Spin/Slide Emergency Decl	AW2	84	2	A-10, B-10	575V (nom)
			36 (SF3)	16	A-17, B-17	480V (nom)
			37 (SF3)	4	A-18, B-18	750V (nom)
			38 (SF3)	3	A-20, B-20	575V (nom)
			30 (SF3)	1	A-14, B-14	2 Car
R-1101	Power Consumption (Friction Brks)	AW2	37 (SF3)	5	A-19, B-19	
		AW1	38 (SF3)	4	A-21, B-21	
		AW1	55	5-12	A-7, B-7	Welded rail, concrete tie
	Ride Roughness	AW2	56	1-12	A-7, B-7	
AW3		53	2-10	A-7, B-7		

DATA LOG (CONTINUED)

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
R-1101	Ride Roughness	AW2	56	17-30	A-7, B-7	Jointed rail/ wood ties
CN-0001-TT	Equip Noise W/S	AW0	49	43		
			51	1, 2		
CN-1001-TT	Car Speed W/S	AW3	52	1-12		
		AW0	60	1-16		2 car train with MB 0002
PN-1001-TT	Car Speed (Int)	AW0	50	2-4		
		AW3	52	13-20		
PN-1301-TT	Interior Survey	AW0	51	9-13		
		AW3	52	13-20		
		AW0	SF 0003			
			12	All		
PN-2001-TT	Accl Effect (Int)	AW0	51	7, 8		
		AW3	52	21-23		
PN-3001-TT	Decl Effect (Int)	AW0	51	7, 8		
		AW3	52	21-23		
PSI-6001-TT	Rad Freq Int	AW0	(MB 0002)			Single car
			4-10, 13	-		
		AW0/AW2	(MB 0002)			2 car train with SF 0002
			11-13	-		
		AW2	(SF 0003)			Single car
			13-16, 23	-		

APPENDIX II – DATA LOG

Collated by Magnetic Tape Number

- Referencing – SLRV Test Number/Record
– GVTP Test Number
– IHRIG Time Identification*

* Certain runs have no identification made for IHRIG time of calibration information. For these runs calibration data precedes the test run but is not collated with an IHRIG time.



MAG TAPE DATA LOG
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
1-A,B	P-3001	5	3-10	12/52/18 - 14/36/50	Decl, blended brks, AWO	1-37-28
	P-3002	5	11-20	14/59/15 - 15/46/20	Decl, friction brks, AWO	1-37-28
	P-3003	6	9-17	11/13/45 - 13/53/55	Decl, dynamic brks, AWO	11-6-0
	P-3004	5	21	16/0/15 - 16/0/25	Decl, emergency brks, AWO	1-37-28
2-A,B	P-2001	23	6-12	10/42/45 - 11/6/50	Accl, performance, AW2	
		25	1-10	9/38/58 - 10/52/54	Accl, performance, AW2	8-29-55
	P-3001	23	18-27	14/6/26 - 15/5/35	Decl, blended Brks, AW2	
	P-3002	23	30-37	15/26/15 - 15/37/50	Decl, friction brks, AW2	
	P-3003	24	9-17	10/17/28 - 11/5/45	Decl, dynamic brks, AW2	
	P-3004	24	18-25	11/14/55 - 13/47/30	Decl, emergency brks, AW2	
3-A,B	P-2001	37	4-8	13/20/35 - 13/36/43	Accl, performance, AWO	11-49-45
		35	2	9/49/41 - 9/50/23	Accl, performance, AW3	7-58-30
	P-3001	37	11-23	14/10/41 - 15/25/35	Decl, blended brks, AWO	11-49-45
	P-3002	37	24-29	15/32/35 - 15/53/12	Decl, friction brks, AWO	11-49-45
		35	39-46	15/14/13 - 15/45/20	Decl, friction brks, AW3	7-58-30
	P-3004	35	5-24	10/6/53 - 11/34/30	Decl, emergency brks, AW3	7-58-30
	P-4001	26	4-9	11/23/0 - 11/58/10	Drift test, AW2	
4-A,B	P-3002	38	1-12	10/22/00 - 10/45/26	Decl, friction brks, AWO	8-30-30
				13/39/09 - 14/05/19		
	P-3003	38	19-26	14/42/09 - 15/22/13	Decl, dynamic brks, AWO	8-30-30
		39	1-8	9/53/16 - 10/26/44	Decl, dynamic brks, AWO	8-00-50

MAG TAPE DATA LOG (CONTINUED)
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
4-A,B	P-3004	39	21-33	13/48/43 - 14/46/18	Decl, emergency brks, AW0	8-00-50
5-A,B	P-3002	66	6-11	13/48/41 - 14/48/38	Decl, friction brks, AW0, 2 car	7-59-35
	P-3003	66	1-5	11/26/00 - 11/55/34	Decl, dynamic brks, AW0, 2 car	7-59-35
	P-3004	66	12-17	15/01/50 - 15/32/41	Decl, emergency brks, AW0, 2 car	7-59-35
	P-2011	64	30-33	14/51/5 - 15/16/20	Spin/slide accel, AW0	7-16-45
	P-3011	65	15-21	15/32/48 - 16/33/30	Spin/slide accel, AW0	7-43-30
		64	14-29	11/29/45 - 14/46/15	Spin/slide decl blend, AW0	7-16-43
		64	34-37	15/21/5 - 15/23/45	Spin/slide decl blend, AW0	7-16-45
		64	4-13	9/50/25 - 11/22/48	Spin/slide decl friction, AW0	7-16-45
		63	5-23	11/4/38 - 15/48/40	Spin/slide decl friction, AW0	10-13-50
6-A,B	P-2001	68	22, 23	14/41/40 - 14/54/15	Accl, 2 car, AW3	8-2-10
	P-3001	69	1-18	9/6/12 - 10/1/49	Decl, blended brks, AW3	7-57-50
	P-3003	69	35-46	13/31/28 - 14/17/0	Decl, dynamic brks, AW3	7-57-50
7-A,B	R-1101	55	5-12	8/37/13 - 8/42/10	R/Q welded rail concrete tie, AW1	
		56	1-12		R/Q welded rail concrete tie, AW2	
		53	2-10	9/23/9 - 9/41/40	R/Q welded rail concrete tie, AW3	
8-A,B	P-2001	74	3, 4	11/17/47 - 11/26/15	Accl performance, AW3	9-22-6
	P-3001	74	1, 2	11/7/50 - 11/11/10	Decl blended brks, AW3	9-22-6

MAG TAPE DATA LOG (CONTINUED)
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
8-A,B	P-3004	77	2-8	10/15/15 - 10/36/55	Decl emerg brk, AW3, 2 car	9-57-42
9-A,B	P-3001	82	3-18	9/1/25 - 10/53/40	Decl blended brks, AW2, 2 car	8-3-00
		81	1-6	No time on record	Decl blended brks, AW3, 2 car	10-10-43
	P-3002	82	23-25	11/25/30 - 14/6/5	Decl friction brks, AW2	8-3-00
	P-3003	82	29-31	14/41/25 - 14/59/48	Decl dynamic brks, AW2, 2 car	8-3-00
	P-3004	82	27, 28	14/22/5 - 14/30/45	Decl emergency brks, AW2, 2 car	8-3-00
		81	8-15	14/54/5 - 15/32/35	Decl mod emergency brks, AW3, 2 car	10-10-43
10-A,B	P-5011	84	2	8/23/50 - 9/22/45	Power consumption blend brk, AW2	11-30-47
11-A,B	P-3001	86	4-7 14-16	7/41/22 - 7/58/16 8/30/43 - 8/26/28	Decl blended brk, AW2, 2 car	
	P-3002	86	9-11	8/6/30 - 8/18/7	Decl friction brk, AW2, 2 car	
	P-4001	86	17-23	9/1/40 - 9/55/25	Drift test, AW2, 2 car	
14-A,B	PC-5011	30	1	9/5/30 - 10/00/09	Power consumption, AW2, 2 car	
	P-4001	30	2-9	10/31/55 - 11/15/20	Draft test, AW2, 2 car	
15-A,B	P-2001	30	11-15	11/29/55 - 11/46/55	Accl, performance, AW2, 2 car	
		31	6-9	9/26/10 - 10/23/25	Accl, performance, AW2, 2 car	
		32	1-4	7/27/0 - 7/46/10	Accl, performance, AW3, 2 car	
	P-3001	32	5-12	7/57/0 - 8/14/45	Decl, blended, AW3, 2 car	
		33	1-9	7/9/40 - 7/36/57	Decl, friction AW0, 2 car	
	P-3004	31	1-5	7/25/5 - 8/10/35	Decl, emergency, AW2, 2 car	
		34	11-20	15/6/38 - 15/27/25	Decl, emergency, AW2	

MAG TAPE DATA LOG (CONTINUED)
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
16-A,B	P-4001	25	1-8	14/52/5 - 15/20/45	Drift test, AW2	13-40-0
17-A,B	PC-5011	36	16	14/9/50 - 16/6/05	Power Consumption, AW2, (480V) (Blended)	8-32-00
18-A,B	PC-5011	37	4	14/24/40 - 16/25/10	Power Consumption AW2, (750V) (Blended)	8-05-20
19-A,B	PC-5011	37	5	16/44/50 - 17/50/10	Power Consumption AW2, (575V) (Friction)	8-05-20 (on tape 18)
20-A,B	PC-5011	38	3	9/45/45 - 10/51/45	Power Consumption, AW2 (575V) (Blended)	
21-A,B	PC-5011	38	4	13/59/20 - 14/53/45	Power Consumption, AW2 (575V) (Friction)	